FIG. 1

FIG. 2

FIG. 3

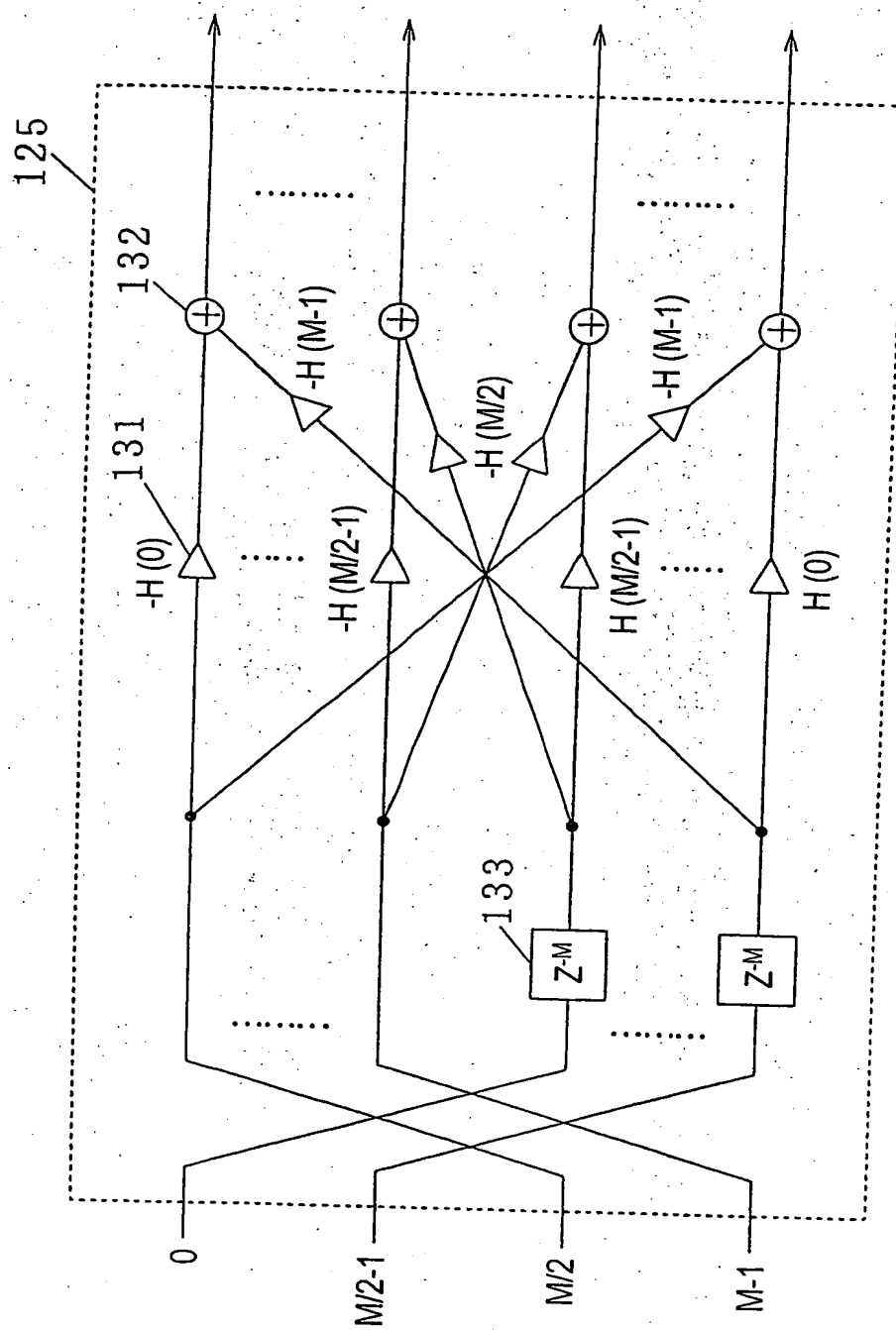## FIG. 4

FIG. 5

FIG. 6

FIG.7

FIG. 8

FIG. 9

BANDPASS RECEIVE SIGNAL

104

302

304 LPF

300 FIRST WAVELET TRANS-FORMER

305 SECOND WAVELET TRANS-FORMER

0 1 ... M-1

301 EQUAL-IZER

0 1 : M-1

130 P/S CON-VERTER

140 DETER-MINATION UNIT

RECEIVE DATA
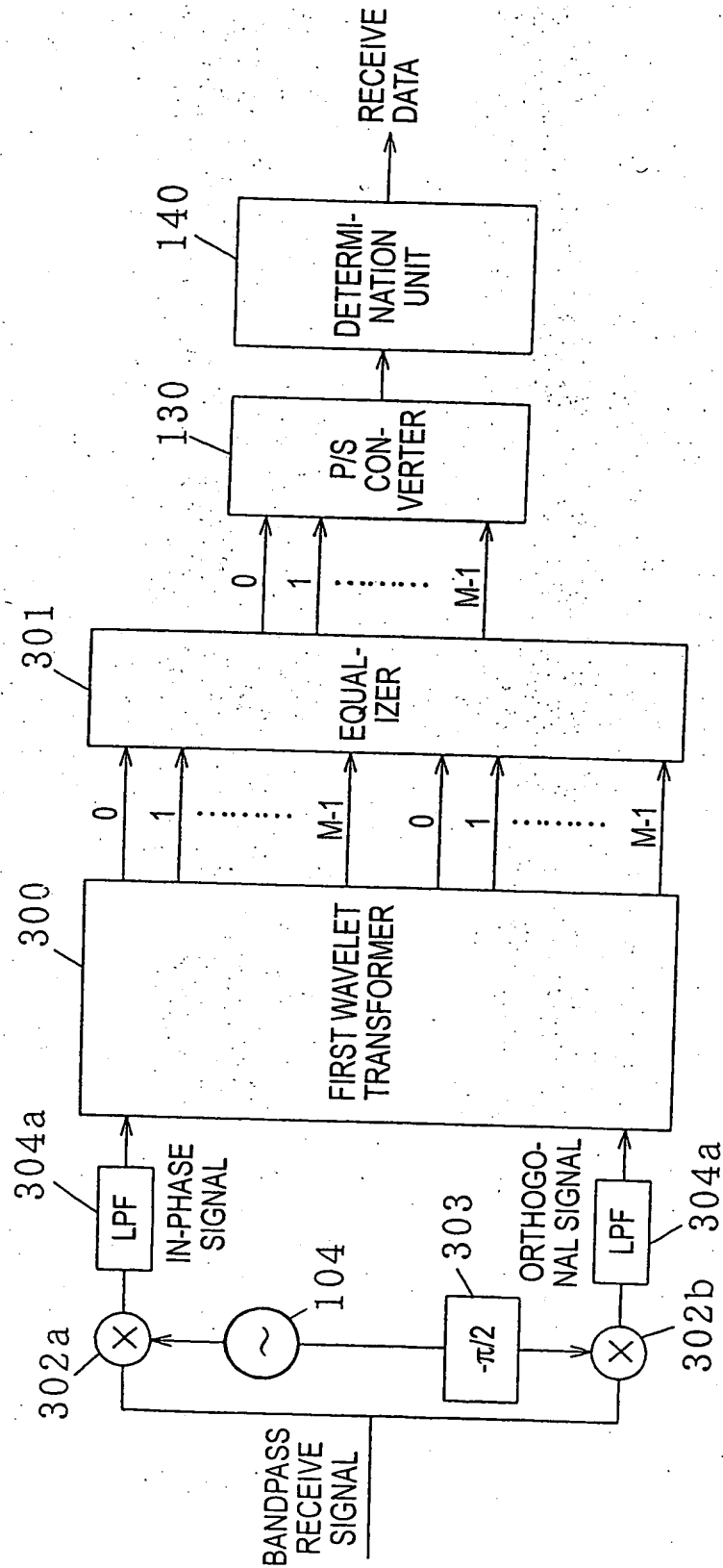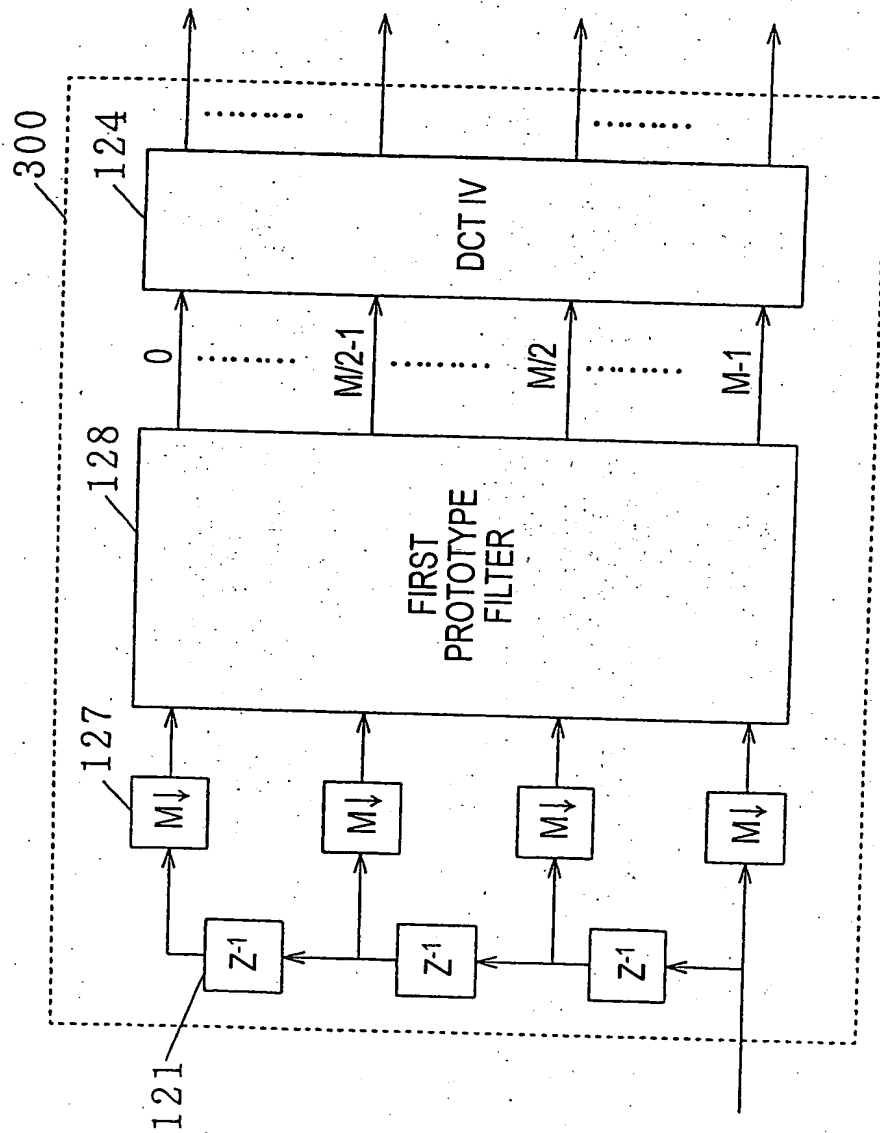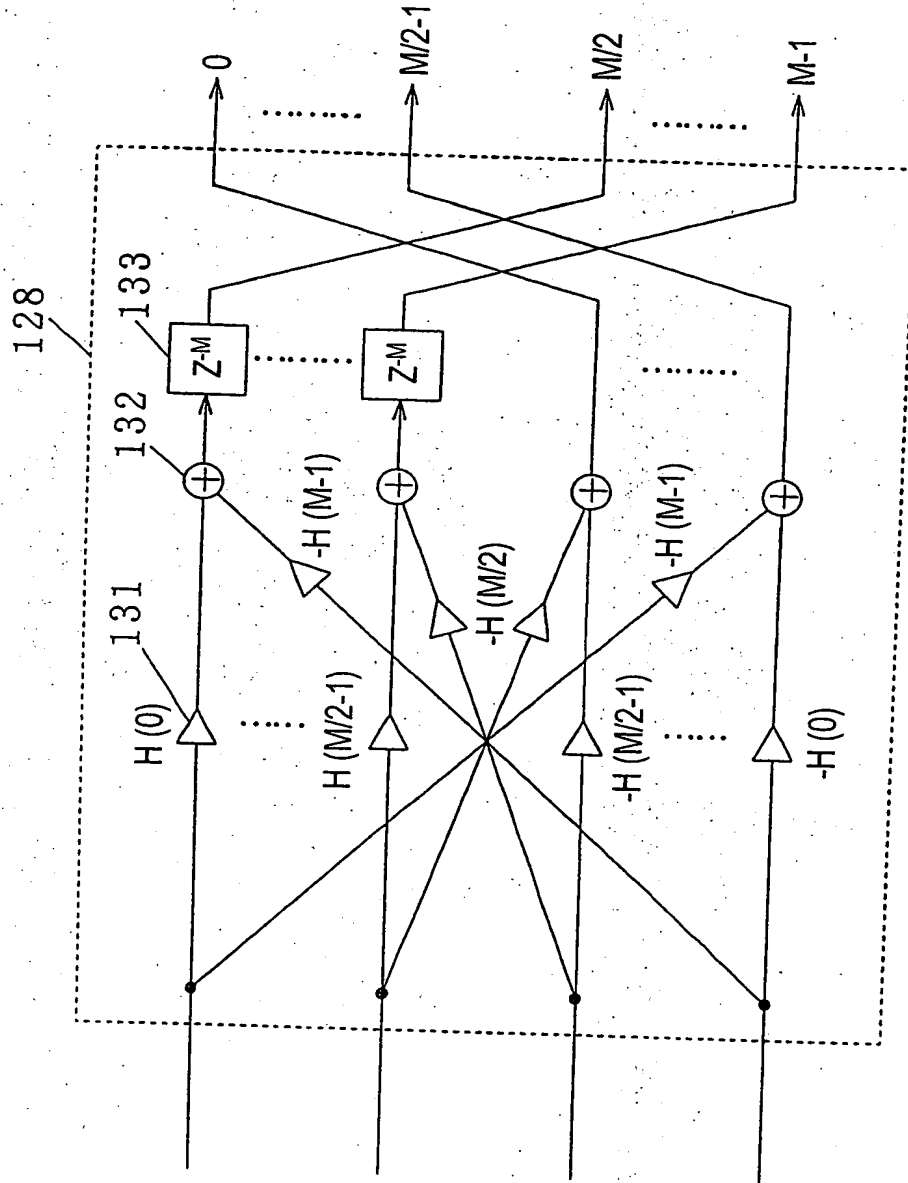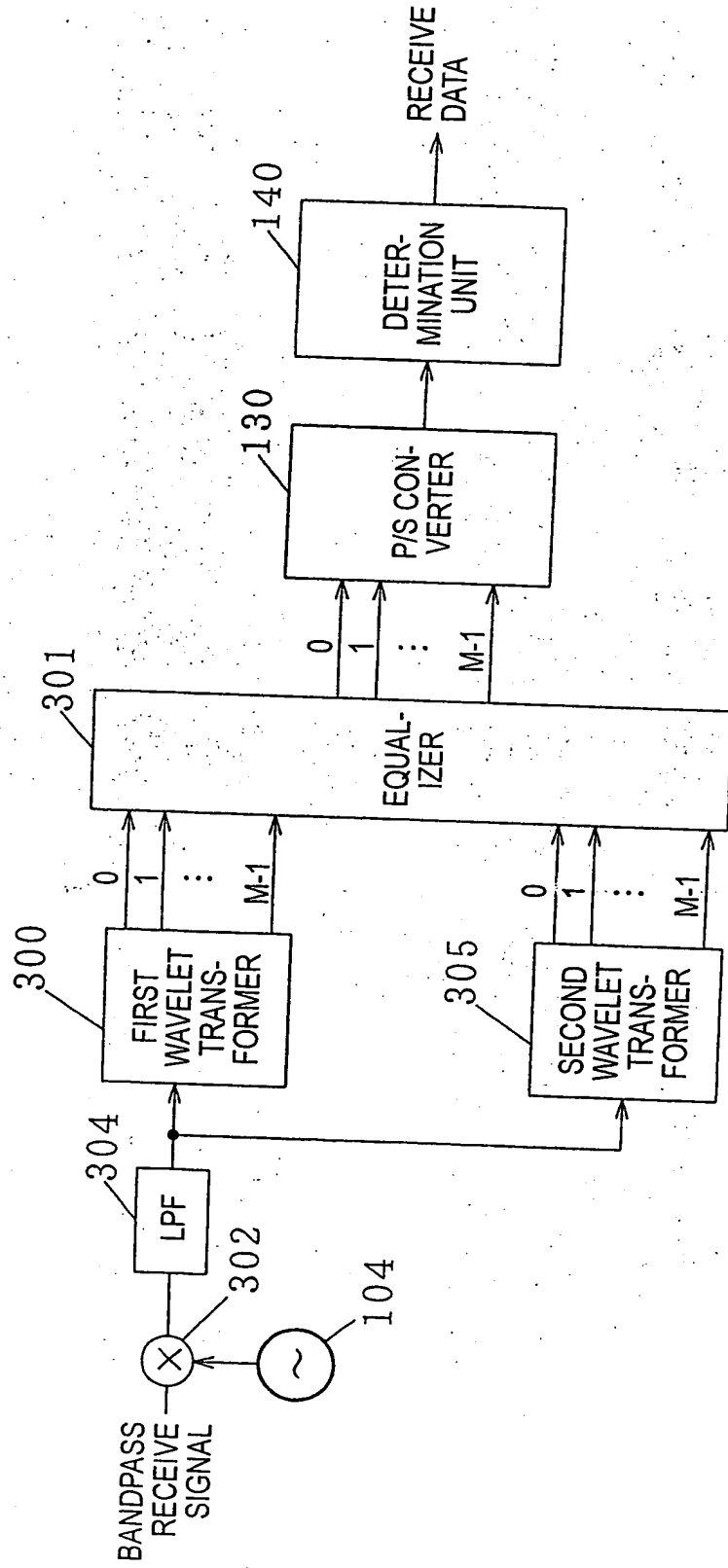
FIG. 10
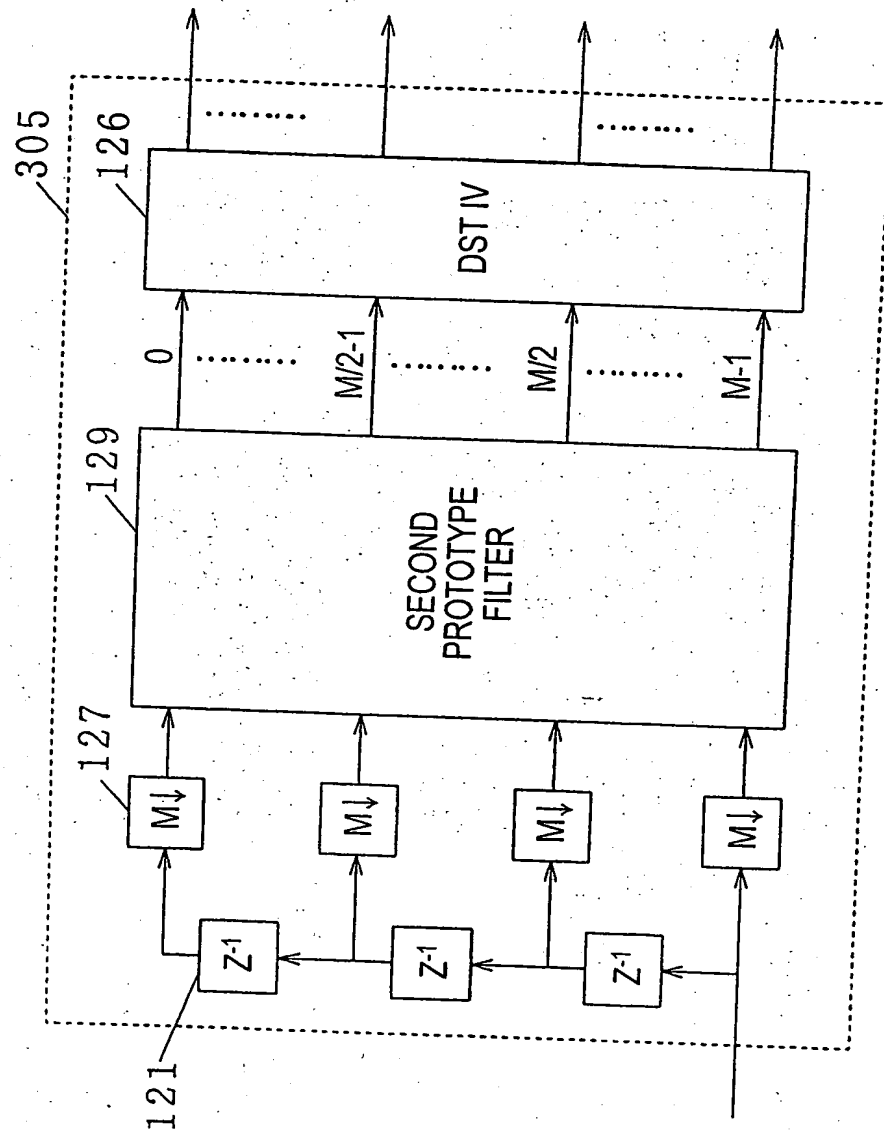
FIG. 11

FIG. 12

FIG. 13

FIG. 14

FREQUENCY OF A SINE WAVE

SUBCARRIER NUMBERS ARE 1, 2, ..., 8 FROM LEFT TO RIGHT
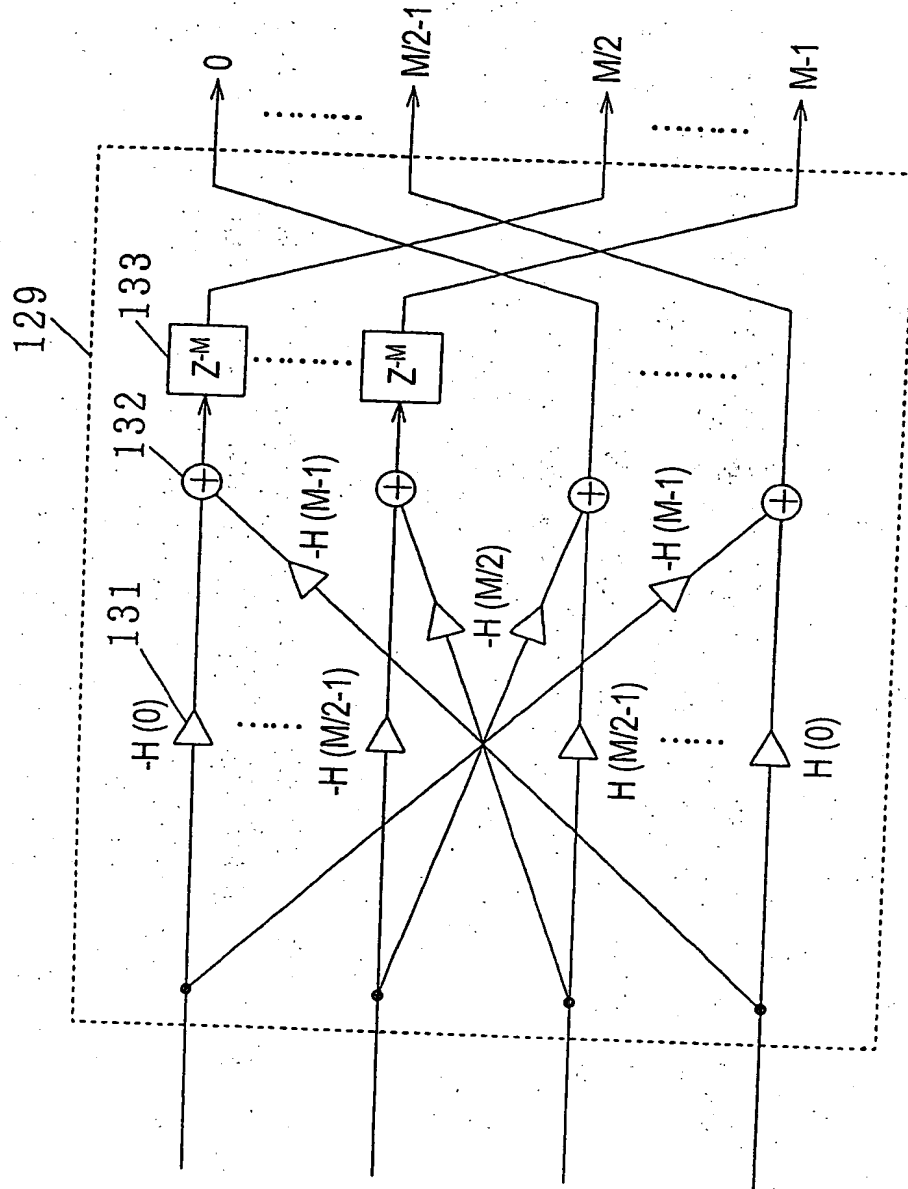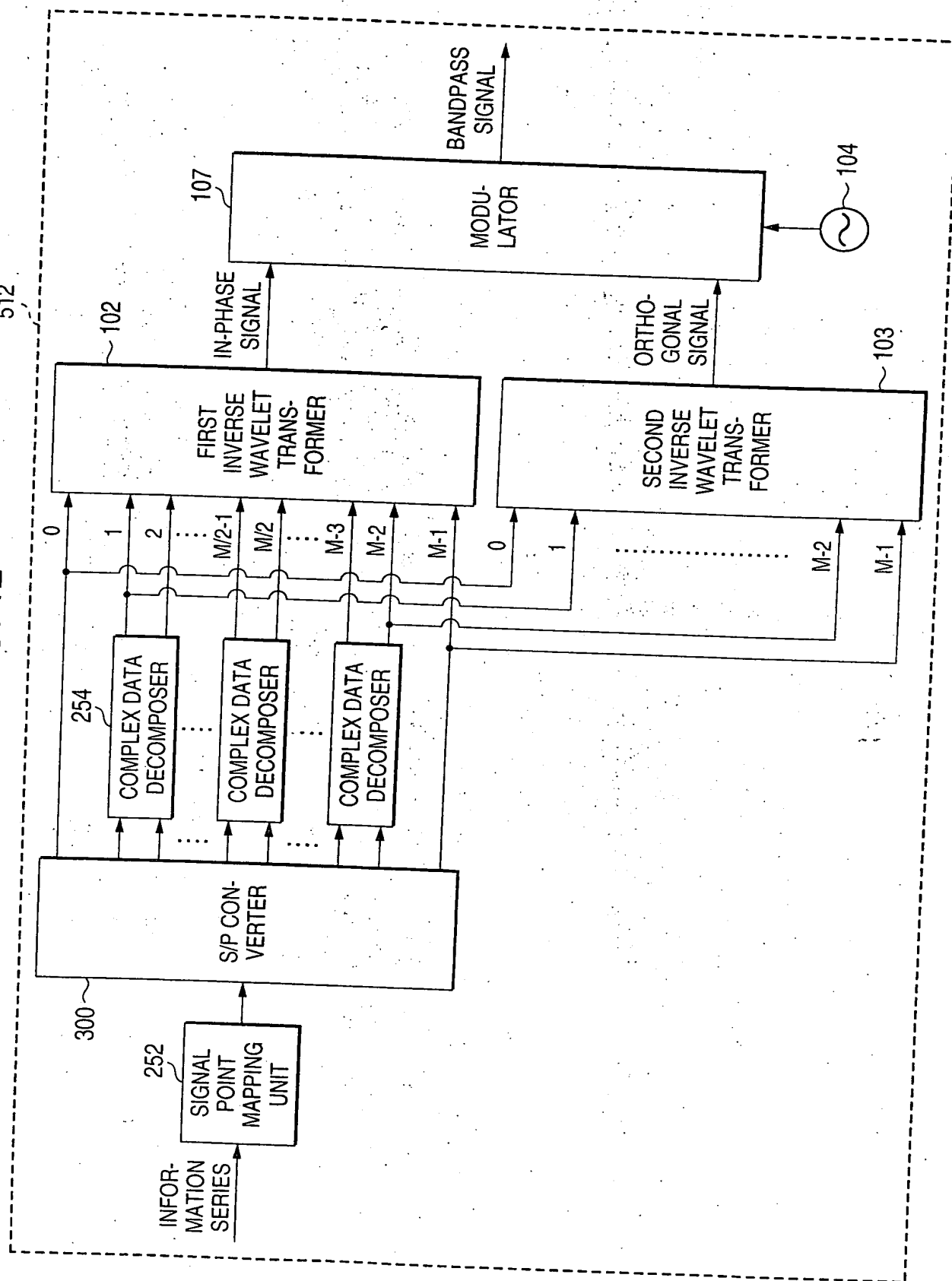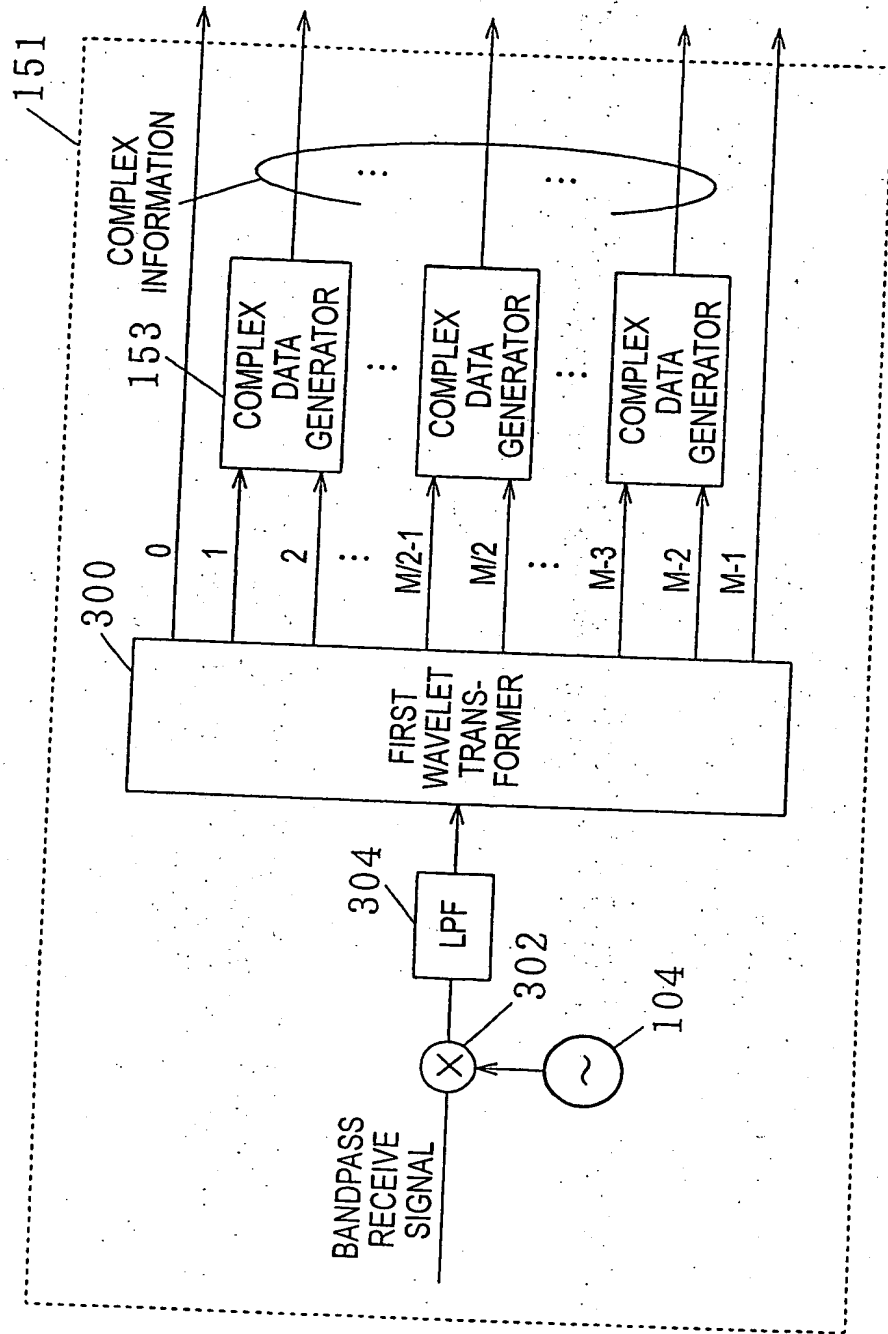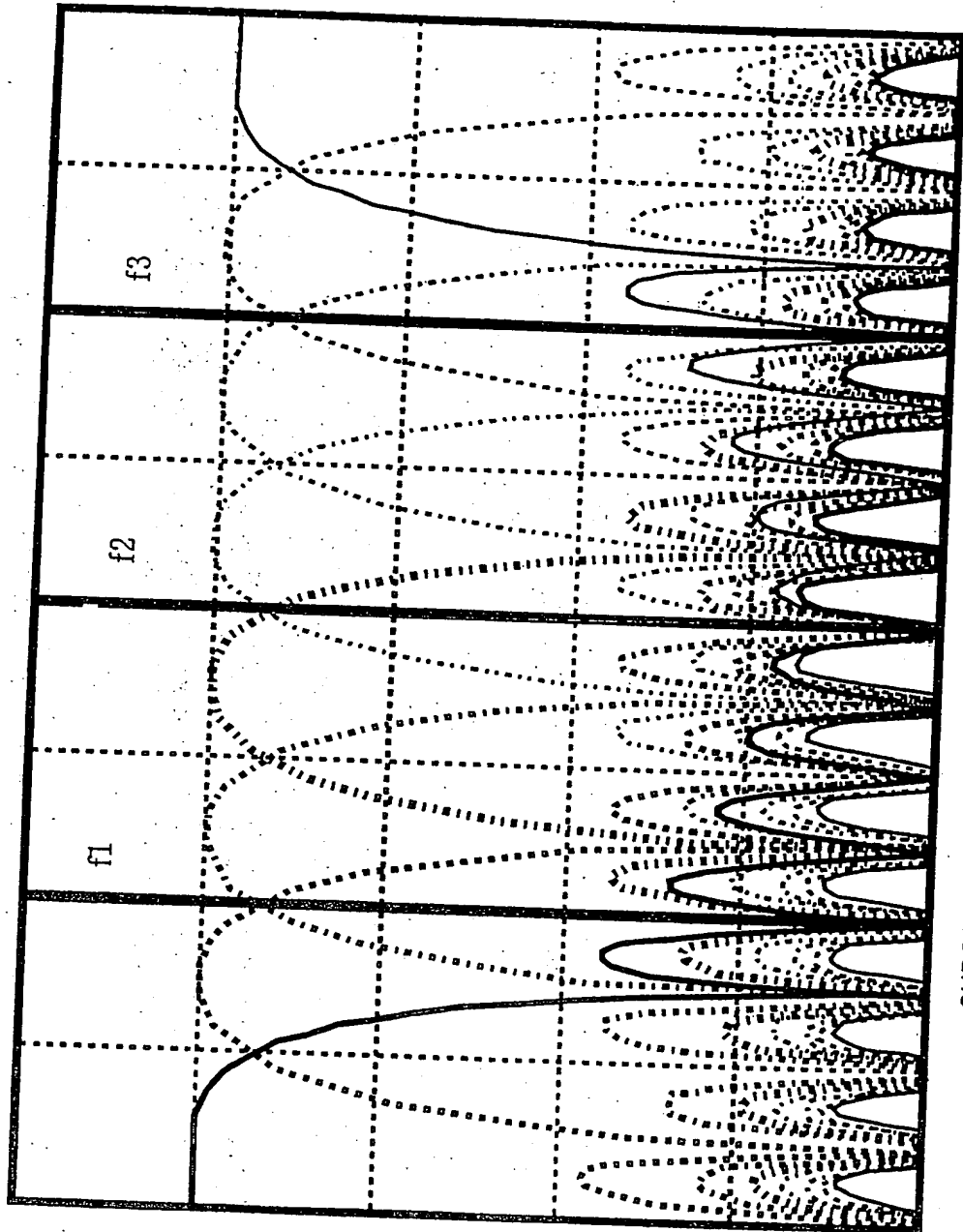
f1   f2   f3

FIG. 15 (a)

```
SYNCHRONIZATION      SSB MODULATOR  ──→  BANDPASS SIGNAL
DATA GENERATOR  ──→
   256               251
```

FIG. 15 (b)

FIG. 16

SEND DATA →

210 SIGNAL POINT MAPPING UNIT

220 S/P CON-VERTER

230 INVERSE WAVELET TRANS-FORMER

240 D/A CON-VERTER

299
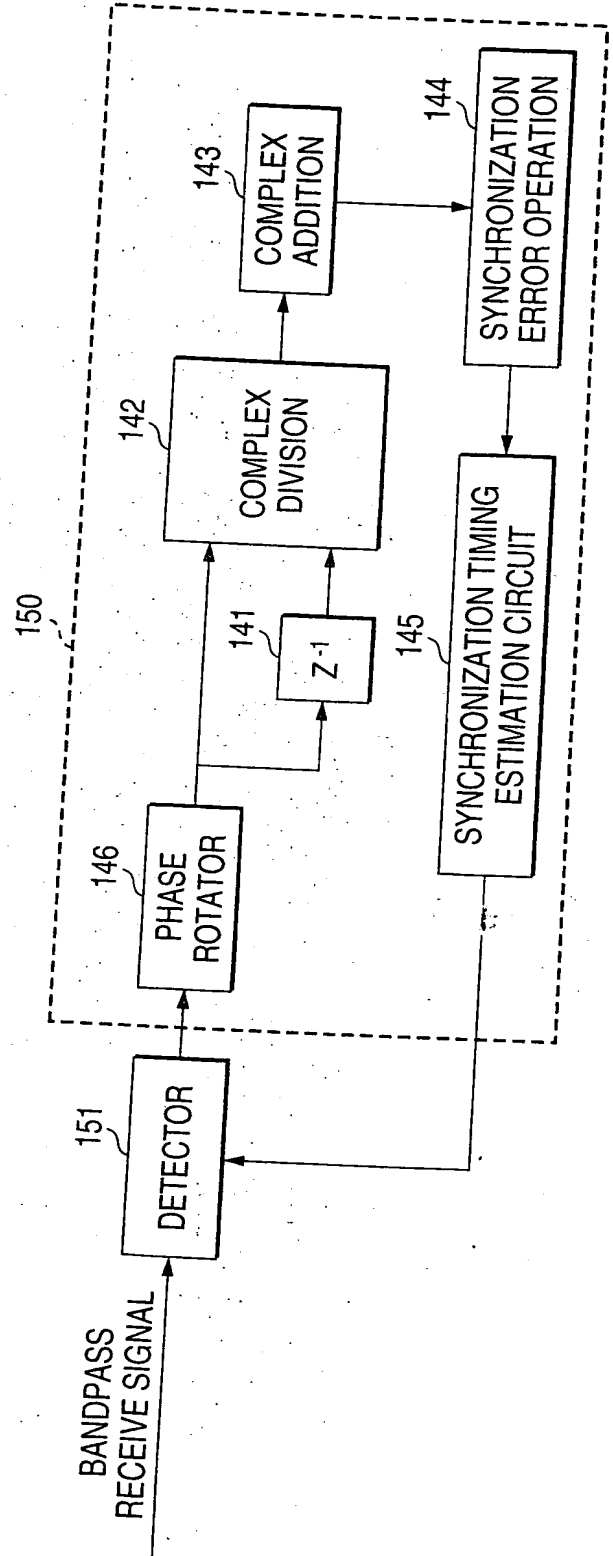
110 A/D CON-VERTER

120 WAVELET TRANS-FORMER

130 P/S CON-VERTER

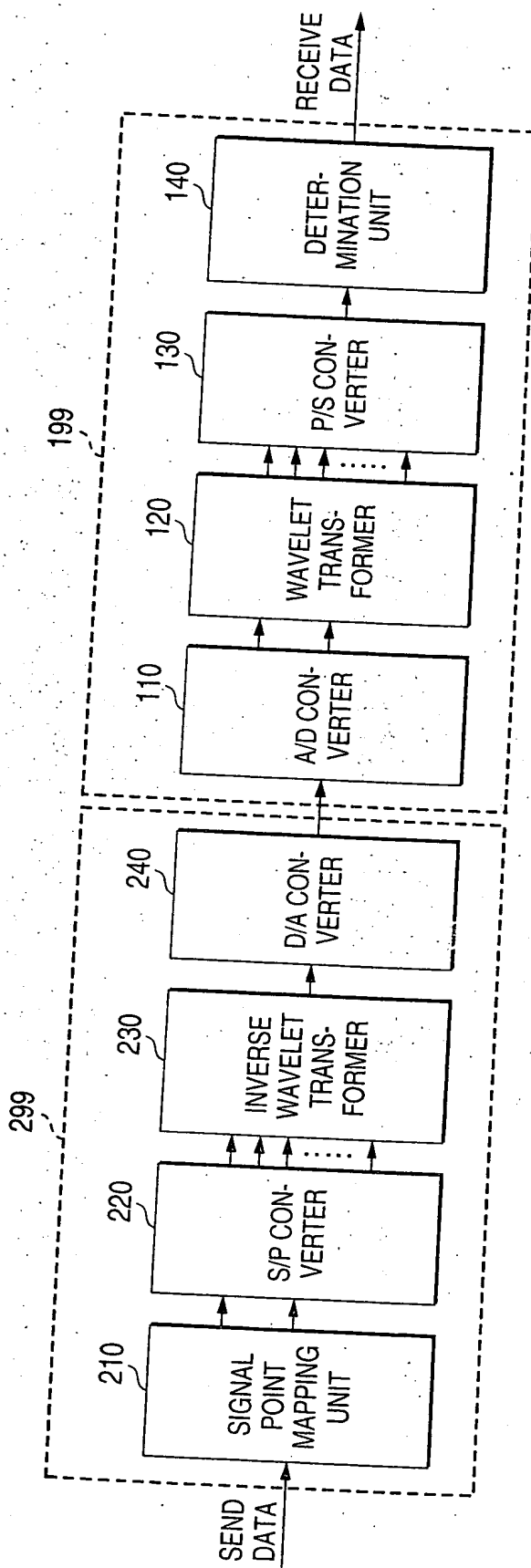140 DETER-MINATION UNIT

199

→ RECEIVE DATA
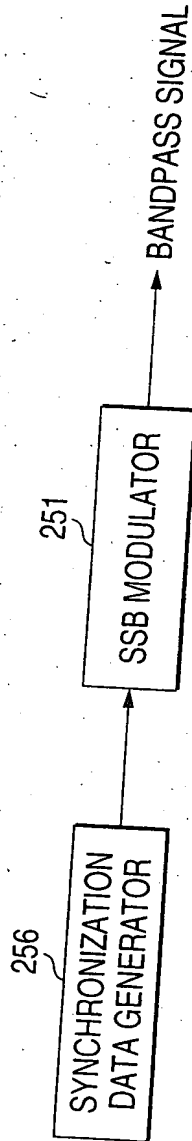
FIG. 17
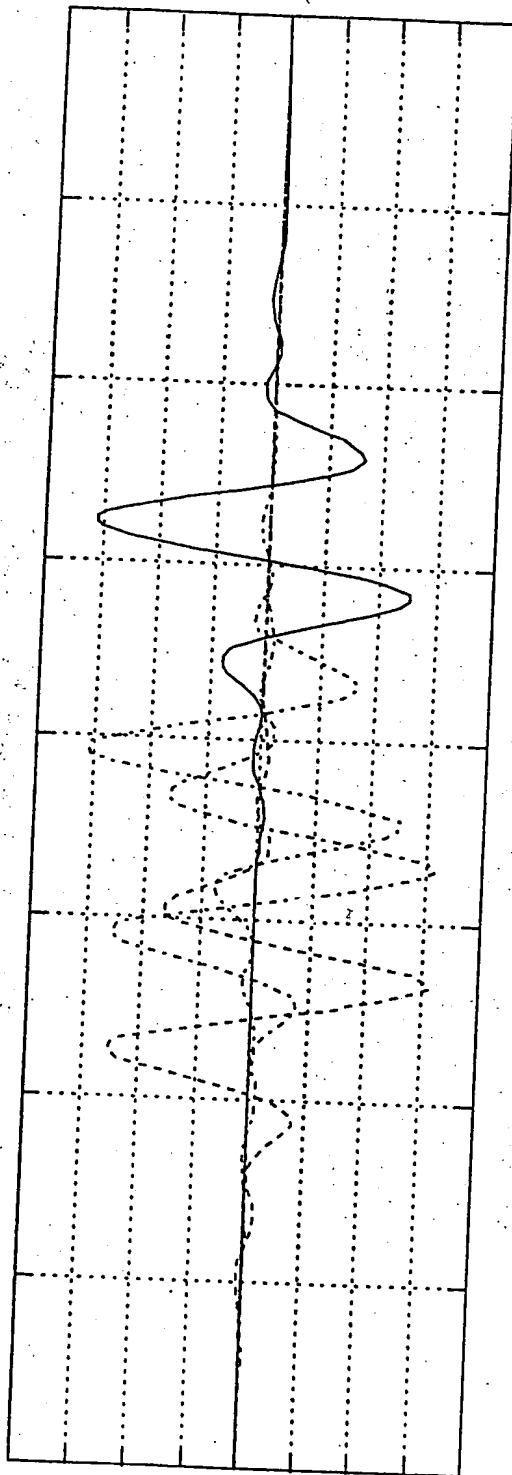
FIG. 18
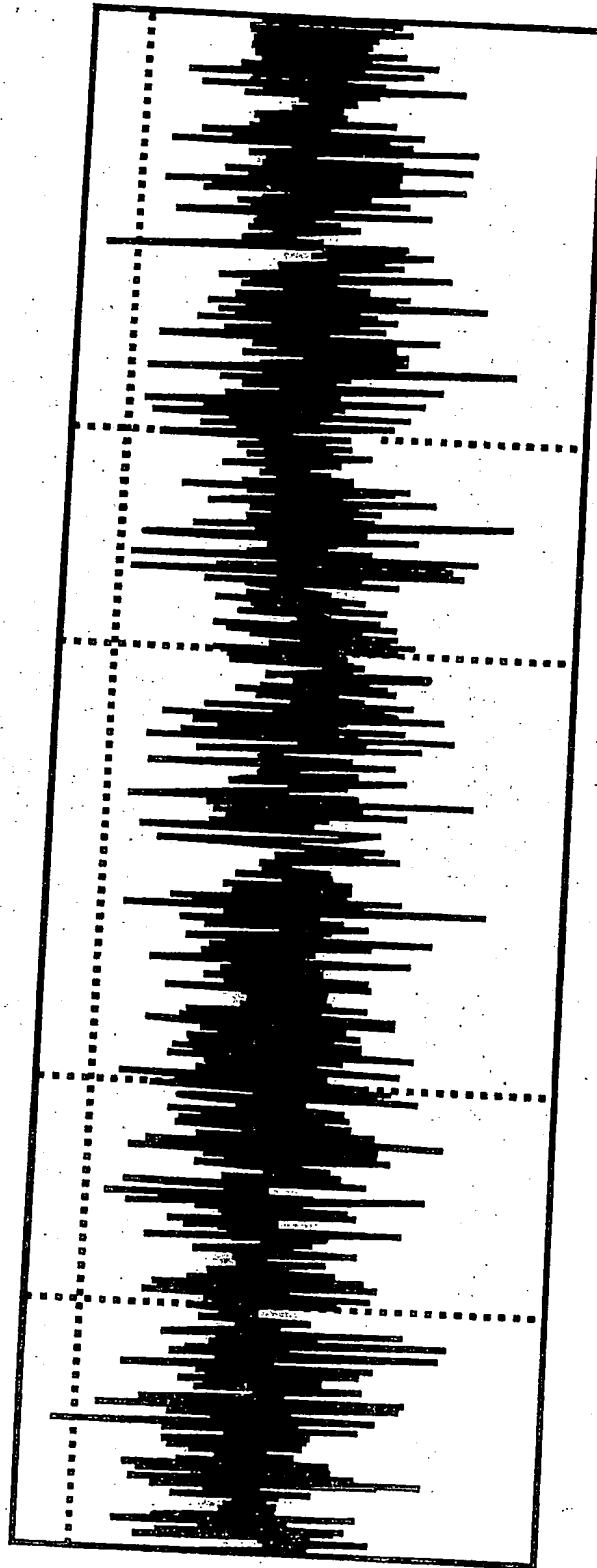
FIG. 19
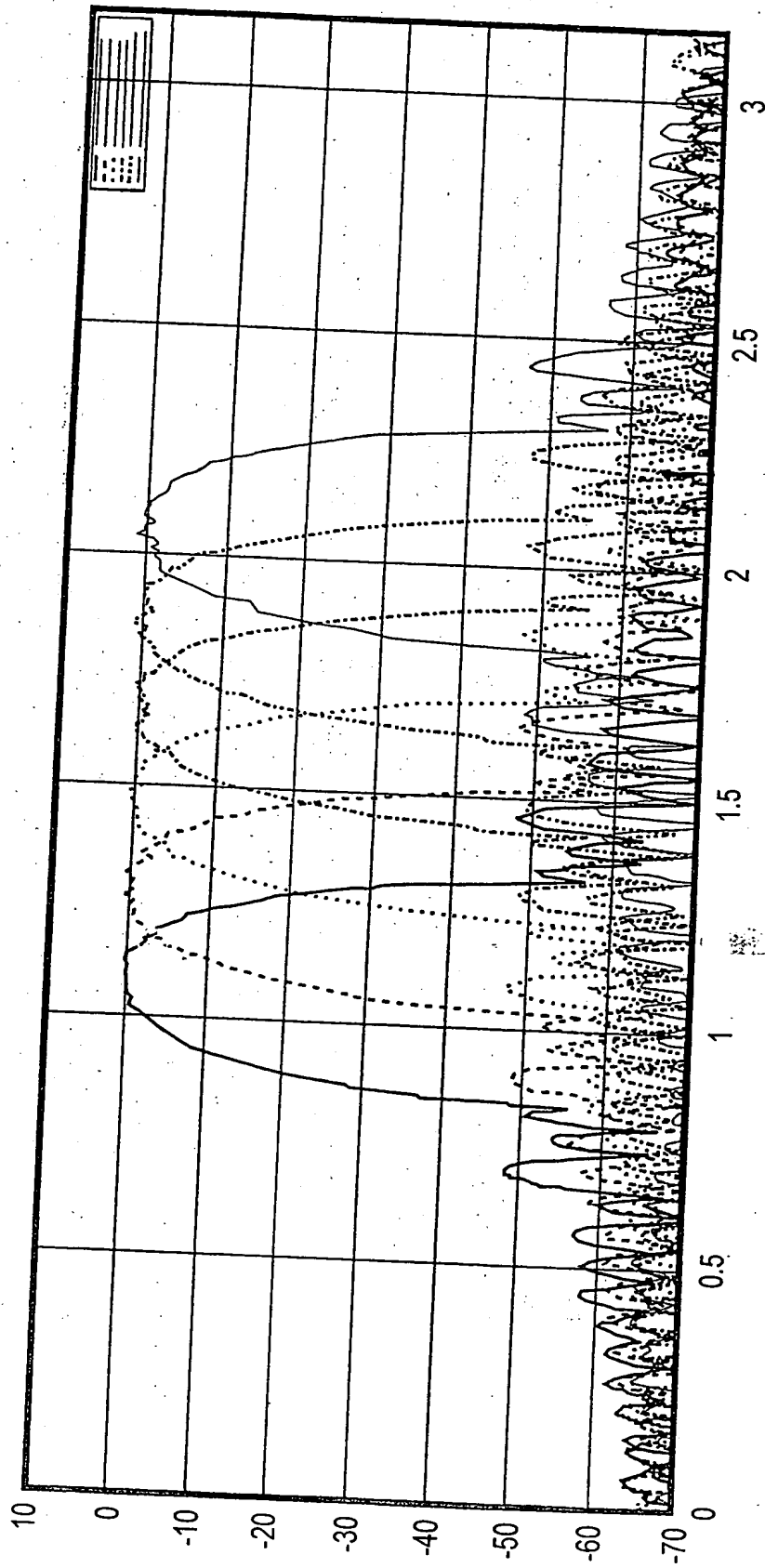
FIG. 20

FRAME SYNCHRONIZATION SYMBOL	EQUALIZATION SYMBOL	INFORMATION DATA TRANSMISSION SYMBOL